



Subject: Maths		
Key Stages: 1 and 2		
	Year 1	Year 2
	Number: Number and Place Value	Number: Number and Place Value
	<ul> <li>Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.</li> </ul>	<ul> <li>Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.</li> <li>Recognise the place value of each digit in a two-digit number (tens, ones).</li> </ul>
	<ul> <li>Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.</li> <li>Given a number, identify one more and one less.</li> <li>Identify and represent numbers using objects and</li> </ul>	<ul> <li>Identify, represent and estimate numbers using different representations, including the number line.</li> <li>Compare and order numbers from 0 up to 100; use &lt;, &gt; and = signs.</li> </ul>
	pictorial representations including the number line, and use the language of: equal to, more than, less than	Read and write numbers to at least 100 in numerals and in words.
	<ul><li>(fewer), most, least.</li><li>Read and write numbers from 1 to 20 in numerals and words.</li></ul>	Use place value and number facts to solve problems.  Number: Addition and Subtraction  Solve problems with addition and subtraction:
	Number: Addition and Subtraction • Read, write and interpret mathematical statements	<ul> <li>Using concrete objects and pictorial representations, including those involving numbers, quantities and</li> </ul>
	<ul><li>involving addition (+), subtraction (–) and equals (=) signs.</li><li>Represent and use number bonds and related</li></ul>	<ul> <li>measures</li> <li>Applying their increasing knowledge of mental and written methods</li> </ul>
	subtraction facts within 20.  • Add and subtract one-digit and two-digit numbers to 20, including zero.	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract numbers using concrete objects, pictorial
	<ul> <li>Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial</li> </ul>	representations, and mentally, including:  • a two-digit number and ones
	representations, and missing number problems such as $7 = -9$ .	<ul><li>a two-digit number and tens</li><li>Two two-digit numbers.</li></ul>
	Number: Multiplication and Division	Adding three one-digit numbers.
	Solve one-step problems involving multiplication and	Show that addition of two numbers can be done in any





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# **Knowledge and Skills – Subject Overview**

division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

#### **Number: Fractions**

- Recognise, find and name a half as one of two equal parts of an object, shape or quantity
- Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity

#### Measurement

Compare, describe and solve practical problems for:

- Lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]
- Mass/weight [for example, heavy/light, heavier than, lighter than]
- Capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]
- Time [for example, quicker, slower, earlier, later]
- Measure and begin to record the following: lengths and heights; mass/ weight; capacity and volume; time (hours, minutes, seconds)
- Recognise and know the value of different denominations of coins and notes
- Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]
- Recognise and use language relating to dates, including days of the week, weeks, months and years
- Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.

**Geometry: Properties of Shapes** 

- order (commutative) and subtraction of one number from another cannot.
- Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

#### **Number: Multiplication and Division**

- Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.
- Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (), division () and equals (=) signs.
- Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.
- Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

#### Number: Fractions

- Recognise, find, name and write fractions 1/3, 1/4, 2/4, and 3/4 of a length, shape, set of objects or quantity.
- Write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and  $\frac{1}{2}$ .

#### Measurement

 Choose and use appropriate standard units to estimate and measure length/ height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers,





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# Knowledge and Skills – Subject Overview

Recognise and name common 2D and 3D shapes, including:

- 2D shapes [for example, rectangles (including squares), circles and triangles]
- 3D shapes [for example, cuboids (including cubes), pyramids and spheres]

### **Geometry: Position and Direction**

• Describe position, direction and movement, including whole, half, quarter and three-quarter turns.

- scales, thermometers and measuring vessels.
- Compare and order lengths, mass, volume/capacity and record the results using

#### >, < and =.

- Recognise and use symbols for pounds (£) and pence
   (p); combine amounts to make a particular value.
- Find different combinations of coins that equal the same amounts of money.
- Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
- Compare and sequence intervals of time.
- Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.
- Know the number of minutes in an hour and the number of hours in a day.

# **Geometry: Properties of Shapes**

- Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line.
- Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
- Identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
- Compare and sort common 2D and 3D shapes and everyday objects.

# **Geometry: Position and Direction**

 Order and arrange combinations of mathematical objects in patterns and sequences.





		<ul> <li>Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).</li> <li>Statistics</li> <li>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.</li> <li>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.</li> <li>Ask and answer questions about totalling and comparing categorical data.</li> </ul>
Year 3	Year 4	Year 5
Number: Number and Place Value	Number: Number and Place Value	Number: Number and Place Value
• Count from 0 in multiples of 4, 8, 50 and	Count in multiples of 6, 7, 9, 25 and 1000 find 1000	Read, write, order and compare numbers to at least 1
100; find 10 or 100 more or less than a	more or less than a given number.	<ul> <li>000 000 and determine the value of each digit.</li> <li>Count forwards or backwards in steps of powers of 10</li> </ul>
given number.	Count backwards through zero to include negative numbers.	for any given number up to 1 000 000.
Recognise the place value of each digit in a	Recognise the place value of each digit in a four-digit	Interpret negative numbers in context, count
three-digit number (hundreds, tens, ones).	number (thousands, hundreds, tens, and ones).	forwards and backwards with positive and negative
<ul><li>Compare and order numbers up to 1000.</li><li>Identify, represent and estimate numbers</li></ul>	Order and compare numbers beyond 1000.	whole numbers, including through zero.
using different representations.	<ul> <li>Identify, represent and estimate numbers using</li> </ul>	Round any number up to 1 000 000 to the nearest 10,
Read and write numbers up to 1000 in	different representations round any number to the	100, 1000, 10 000 and 100 000.
numerals and in words.	nearest 10, 100 or 1000.	Solve number problems and practical problems that     involve all of the above.
Solve number problems and practical	Solve number and practical problems that involve all of the above and with increasingly large positive.	involve all of the above.  • Read Roman numerals to 1000 (M) and recognise
problems involving these ideas.	the above and with increasingly large positive numbers.	years written in Roman numerals.
Number: Addition and Subtraction	Read Roman numerals to 100 (I to C) and know that	Number: Addition and Subtraction





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# **Knowledge and Skills – Subject Overview**

- Add and subtract numbers mentally, including:
- a three-digit number and ones a three-digit number and tens a three-digit number and hundreds
- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.
- Estimate the answer to a calculation and use inverse operations to check answers.
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

### **Number: Multiplication and Division**

- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
- Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.
- Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling

over time, the numeral system changed to include the concept of zero and place value.

#### Number: Addition and Subtraction

- Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
- Estimate and use inverse operations to check answers to a calculation.
- Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.

### **Number: Multiplication and Division**

- Recall multiplication and division facts for multiplication tables up to 12 x 12.
- Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.
- Recognise and use factor pairs and commutativity in mental calculations.
- Multiply two-digit and three-digit numbers by a onedigit number using formal written layout.
- Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.

Number: Fractions

- Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).
- Add and subtract numbers mentally with increasingly large numbers.
- Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

### **Number: Multiplication and Division**

- Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
- Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19.
- Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers.
- Multiply and divide numbers mentally drawing upon known facts.
- Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
- multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.
- Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed





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# Knowledge and Skills – Subject Overview

problems and correspondence problems in which n objects are connected to m objects.

#### **Number: Fractions**

- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10.
- Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
- Recognise and show, using diagrams, equivalent fractions with small denominators
- Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7].
- Compare and order unit fractions, and fractions with the same denominators solve problems that involve all of the above.

#### Measurement

- Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml).
- Measure the perimeter of simple 2D shapes.
- · Add and subtract amounts of

- Recognise and show, using diagrams, families of common equivalent fractions.
- Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
- Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.
- Add and subtract fractions with the same denominator.
- Recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1/4, 1/2, ¾.
- Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
- Round decimals with one decimal place to the nearest whole number.
- Compare numbers with the same number of decimal places up to two decimal places.
- Solve simple measure and money problems involving fractions and decimals to two decimal places.

#### Measurement

- Convert between different units of measure [for example, kilometre to metre; hour to minute].
- Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.

(3).

- Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.
- Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.
- Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

#### **Number: Fractions**

- Compare and order fractions whose denominators are all multiples of the same number.
- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
- Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5] add and subtract fractions with the same denominator and denominators that are multiples of the same number.
- Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
- Read and write decimal numbers as fractions [for example, 0.71 = 71/100].
- Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents round decimals with two decimal places to the nearest





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# Knowledge and Skills - Subject Overview

- money to give change, using both £ and p in practical contexts.
- Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.
- Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.
- Know the number of seconds in a minute and the number of days in each month, year and leap year.
- Compare durations of events [for example to calculate the time taken by particular events or tasks].

### **Geometry: Properties of Shapes**

- Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.
- Recognise angles as a property of shape or a description of a turn.
- Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater

- Find the area of rectilinear shapes by counting squares.
- Estimate, compare and calculate different measures, including money in pounds and pence.

### **Geometry: Properties of Shapes**

- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
- Identify acute and obtuse angles and compare and order angles up to two right angles by size
- Identify lines of symmetry in 2D shapes presented in different orientations.
- Complete a simple symmetric figure with respect to a specific line of symmetry.

#### **Geometry: Position and Direction**

- Describe positions on a 2D grid as coordinates in the first quadrant.
- Describe movements between positions as translations of a given unit to the left/right and up/down.
- Plot specified points and draw sides to complete a given polygon.

#### **Statistics**

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

- whole number and to one decimal place read, write, order and compare numbers with up to three decimal places.
- Solve problems involving number up to three decimal places.
- Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.
- Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5, and those fractions with a denominator of a multiple of 10 or 25.

#### Measurement

- Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).
- Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity [for example, using water].
- Solve problems involving converting between units of





# **Knowledge and Skills – Subject Overview**

than or less than a right angle.

• Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

### **Geometry: Position and Direction**

- Describe positions on a 2D grid as coordinates in the first quadrant.
- Describe movements between positions as translations of a given unit to the left/right and up/down.
- plot specified points and draw sides to complete a given polygon.
- Complete a simple symmetric figure with respect to a specific line of symmetry.

#### Statistics

- Interpret and present data using bar charts, pictograms and tables.
- Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

time.

 Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

### **Geometry: Properties of Shapes**

- Identify 3D shapes, including cubes and other cuboids, from 2D representations.
- Use the properties of rectangles to deduce related facts and find missing lengths and angles.
- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
- Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.
- Draw given angles, and measure them in degrees (o)
- Identify angles at a point and one whole turn (total 360°).
- Identify angles at a point on a straight line and half a turn (total 180°).
- Identify other multiples of 90°.

### **Geometry: Position and Direction**

 Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

#### **Statistics**

- Solve comparison, sum and difference problems using information presented in a line graph.
- Complete, read and interpret information in tables, including timetables.





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Year 6	
Number: Number and Place Value	
• Read, write, order and compare numbers to	
at least 1 000 000 and determine the value	
of each digit.	
<ul> <li>Count forwards or backwards in steps of</li> </ul>	
powers of 10 for any given number up to 1	
000 000.	
<ul> <li>Interpret negative numbers in context,</li> </ul>	
count forwards and backwards with positive	
and negative whole numbers, including	
through zero.	
• Round any number up to 1 000 000 to the	
nearest 10, 100, 1000, 10 000 and 100 000.	
<ul> <li>Solve number problems and practical problems that involve all of the above.</li> </ul>	
Read Roman numerals to 1000 (M) and	
recognise years written in Roman numerals.	
Number: Addition and Subtraction	
Add and subtract whole numbers with more	
than 4 digits, including using formal written	
methods (columnar addition and	
subtraction).	
Add and subtract numbers mentally with	
increasingly large numbers.	
<ul> <li>Use rounding to check answers to</li> </ul>	
calculations and determine, in the context	
of a problem, levels of accuracy.	
<ul> <li>Solve addition and subtraction multi-step</li> </ul>	
problems in contexts, deciding which	
operations and methods to use and why.	





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Number: Multiplication and Division			
<ul> <li>Identify multiples and factors, including</li> </ul>			
finding all factor pairs of a number, and			
common factors of two numbers.			
<ul> <li>Know and use the vocabulary of prime</li> </ul>			
numbers, prime factors and composite			
(non-prime) numbers.			
Establish whether a number up to 100 is			
prime and recall prime numbers up to 19.			
<ul> <li>Multiply numbers up to 4 digits by a one- or</li> </ul>			
two-digit number using a formal written			
method, including long multiplication for			
two-digit numbers.			
<ul> <li>Multiply and divide numbers mentally</li> </ul>			
drawing upon known facts.			
Divide numbers up to 4 digits by a one-digit			
number using the formal written method of			
short division and interpret remainders			
appropriately for the context.			
<ul> <li>Multiply and divide whole numbers and</li> </ul>			
those involving decimals by 10, 100 and			
1000.			
Recognise and use square numbers and			
cube numbers, and the notation for squared			
(²) and cubed (³).			
Solve problems involving multiplication and			
division including using their knowledge of			
factors and multiples, squares and cubes.			
Solve problems involving addition,			
subtraction, multiplication and division and			
a combination of these, including			





# **Knowledge and Skills - Subject Overview**

understanding the meaning of the equals sign. · Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. **Number: Fractions**  Compare and order fractions whose denominators are all multiples of the same number. • Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. · Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]. • Add and subtract fractions with the same denominator and denominators that are multiples of the same number. · Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Read and write decimal numbers as fractions [for example, 0.71 = 71/100]. • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. • Round decimals with two decimal places to

the nearest whole number and to one





Knowledge and Skills – Subject Overview		
decimal place.		
<ul> <li>Read, write, order and compare numbers</li> </ul>		
with up to three decimal places.		
<ul> <li>Solve problems involving number up to</li> </ul>		
three decimal places.		
<ul> <li>Recognise the per cent symbol (%) and</li> </ul>		
understand that per cent relates to 'number		
of parts per hundred', and write		
percentages as a fraction with denominator		
100, and as a decimal.		
<ul> <li>Solve problems which require knowing</li> </ul>		
percentage and decimal equivalents of 1/2,		
1/4, 1/5, 2/5, 4/5, and those fractions with a		
denominator of a multiple of 10 or 25.		
Measurement		
<ul> <li>Convert between different units of metric</li> </ul>		
measure (for example, kilometre and metre;		
centimetre and metre; centimetre and		
millimetre; gram and kilogram; litre and		
millilitre).		
<ul> <li>Understand and use approximate</li> </ul>		
equivalences between metric units and		
common imperial units such as inches,		
pounds and pints.		
<ul> <li>Measure and calculate the perimeter of</li> </ul>		
composite rectilinear shapes in centimetres		
and metres.		
<ul> <li>Calculate and compare the area of</li> </ul>		
rectangles (including squares), and including		
using standard units, square centimetres		
(cm²) and square metres (m²) and estimate		





Knowledge and Skills – Subject Overview		
the area of irregular shapes.		
<ul> <li>Estimate volume [for example, using 1 cm<sup>3</sup></li> </ul>		
blocks to build cuboids (including cubes)]		
and capacity [for example, using water].		
<ul> <li>Solve problems involving converting</li> </ul>		
between units of time.		
<ul> <li>Use all four operations to solve problems</li> </ul>		
involving measure [for example, length,		
mass, volume, money] using decimal		
notation, including scaling.		
Geometry: Properties of Shapes		
<ul> <li>Identify 3D shapes, including cubes and</li> </ul>		
other cuboids, from 2D representations.		
<ul> <li>Use the properties of rectangles to deduce</li> </ul>		
related facts and find missing lengths and		
angles.		
<ul> <li>Distinguish between regular and irregular</li> </ul>		
polygons based on reasoning about equal		
sides and angles.		
<ul> <li>Know angles are measured in degrees:</li> </ul>		
estimate and compare acute, obtuse and		
reflex angles.		
<ul> <li>Draw given angles, and measure them in</li> </ul>		
degrees (°).		
<ul> <li>Identify angles at a point and one whole</li> </ul>		
turn (total 360°).		
<ul> <li>Identify angles at a point on a straight line</li> </ul>		
and half a turn (total 180°).		
<ul> <li>Identify other multiples of 90°.</li> </ul>		
Geometry: Position and Direction		





# **Knowledge and Skills – Subject Overview**

 Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.

#### **Statistics**

- Solve comparison, sum and difference problems using information presented in a line graph.
- Complete, read and interpret information in tables, including timetables.

### **Ratio and Proportion**

- Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts.
- Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.
- Solve problems involving similar shapes where the scale factor is known or can be found.
- Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

### Algebra

- Use simple formulae.
- Generate and describe linear number sequences.